Massachusetts Institute of Technology
Department of Physics

Condensed Matter Theory Seminar

"Soft modes in the complex SYK model"

Grigory Tarnopolskiy, Harvard University

Abstract: In this talk I will discuss computation of the effective low energy action of the complex SYK model. In this case the conserved U(1) charge contributes a compact scalar field to the effective action in addition to the Schwarzian term. From this we derive the many-body density of states and extract the charge compressibility.

Talk is based on work https://arxiv.org/abs/1910.14099

12:00pm noon
Tuesday, April 21, 2020
Virtual Zoom seminar

Host: Adrian Po